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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/595,388	09/02/2008	Paul Frederic Robbins	134-03	8562
GREENLEE WINNER AND SULLIVAN P C 4875 PEARL EAST CIRCLE SUITE 200 BOULDER, CO 80301			EXAMINER	
			YAO, LEI	
			ART UNIT	PAPER NUMBER
			1642	
			MAIL DATE	DELIVERY MODE
			03/01/2010	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
Office Action Comments	10/595,388	ROBBINS ET AL.			
Office Action Summary	Examiner	Art Unit			
	LEI YAO	1642			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status					
1) Responsive to communication(s) filed on 9/2/20	008				
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closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-21</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)☐ Claim(s) is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) 1-21 are subject to restriction and/or e	lection requirement.				
Application Papers					
9) The specification is objected to by the Examine	•				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date.  Notice of Informal Patent Application					
Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application 6) Other:					

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## **DETAILED ACTION**

## Election/Restrictions

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group 1, claim(s) 1-10, 15-21, drawn to a method for stimulating immunity in a patient comprising a patient having a cancer with a peptide comprising the sequence of SEQ ID NO: 6.

Group 2, claim(s) 11-14, drawn to a vaccine comprising the peptide of SEQ ID NO: 6.

A national stage application shall relate to one invention only or to a group of inventions so linked as to form a single general inventive concept. When claims to different categories are present in the application, the claims will be considered to have unity of invention if the claims are drawn only to one of the following combinations of categories: (1) A product and a process specially adapted for the manufacture of said product; or (2) A product and a process of use of said product; or (3) A product, a process specially adapted for the manufacture of the said product, and a use of the said product; or (4) A process and an apparatus or means specifically designed for carrying out the said process; or (5) A product, a process specially adapted for the manufacture of the said product, and an apparatus or means specifically designed for carrying out the said process. If multiple products, processes of manufacture or uses are claimed, the first invention of the category first mentioned in the claims of the application will be considered as the main invention in the claims, see PCT article 17(3) (a) and 1.476 (c), 37 C.F.R. 1.475(b) and (d). Group I will be the main invention. After that, all other products and methods will be broken out as separate groups (see 37 CFR 1.475(d).)

The inventions listed as Groups 1-2 do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons: The special technical feature of the first claim in group 1 is considered to be a method of using a peptide

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comprising the immunogenic part of SEQ ID NO: 6 that is the vaccine claimed in group

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2. Thus, the special technical feature that links groups 1-2 is considered to be the

peptide of SEQ ID NO: 6, which has been disclosed by Gu et al in CN1403480

(published March 2003, see sequence search result and English translation attached).

Gu et al disclose a peptide comprising the sequence of SEQ ID NO: 6 and a method of

using the peptide for treating a cancer (see English translation, part 2, page 1-2, 131

aa). Thus the special technical feature of group 1 and 2 as well as the special technical

feature linking each of the groups is not a contribution over the prior art, therefore, does

not constitute a special technical feature as defined by PCT Rule 13.2.

Election of species

This application contains claims directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so

The species are as follows:

A: SEQ ID NO: 9;

SEQ ID NO: 10;

SEQ ID NO: 9 and SEQ ID NO:10.

linked as to form a single general inventive concept under PCT Rule 13.1.

B: Colorectal cancer; melanoma.

C. HLA DRβ1\*0402;

HLA DRβI\*1301;

HLA DRβ1\*0402 and HLA DRβI\*1301

The species listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or

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corresponding special technical features for the following reasons: Neither SEQ ID NO: 9 nor SEQ ID NO: 10 attached to the SEQ ID NO: 6 on N- or C-terminus made a contribution to the art since Gu's sequence includes the peptide of SEQ ID NO: 9 and 10 attached to the each end of the SEQ ID NO: 6 and Gu et al also teach a method of treating various cancer that would comprises colorectal cancer and melanoma (see attached).

In the event of election of group 1, Applicant is required, in reply to this action, to elect one (SEQ ID NO: 9, SEQ ID NO: 10, or both SEQ ID NO: 9 and 10) from A AND elect one (colorectal cancer or melanoma) from B, and elect one from C for treatment which the claims shall be restricted if no generic claim is finally held to be allowable. For example, elect SEQ ID NO: 10 from A and colorectal cancer from B and HLA DRBI\*1301 from C.

The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to <u>Lei Yao</u>, whose telephone number is 571-272-3112. The examiner can normally be reached on 8am-6.00pm Monday-Thursday.

Any inquiry of a general nature, matching or file papers or relating to the status of this application or proceeding should be directed to Kim Downing for Art Unit 1642 whose telephone number is 571-272-0521

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on 571-272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Lei Yao,/ Examiner, Art Unit 1642